## **Patent Claims**

- 1. Procedure for the release and isolation or release and detection of nucleic acids from biological compartments of a sample comprising the following steps:
  - A sample is incubated in a sample processing vessel with magnetic particles that can bind with the biological compartments while the sample processing vessel is shaken,
  - A magnet is positioned near the vessel so that the magnetic particles are held against the vessel wall,
  - The resultant fluid is removed from the vessel
  - The magnetic particles are resuspended in a second fluid by
    - a) moving the magnet away from the vessel so that the magnetic particles are no longer held against the vessel wall while
    - b) the vessel is shaken,
  - The biological compartments are lysed and a lysis mixture is created,
  - The lysis mixture is warmed,
  - The mixture is cooled under conditions that make it possible to isolate or hybridize the nucleic acids to be isolated or detected.

- 2. Procedure based on Claim 1, characterized by the fact that the nucleic acids are not removed from the vessel during the steps described.
- 3. Procedure based on Claim 1, characterized by the fact that the steps described take place within one reaction block.
- 4. Procedure based on Claim 1, characterized by the fact that the magnetic particles are larger than 2.8 μm.
- 5. System for the release and isolation of nucleic acids from a suspension of biological compartments with magnetic particles containing the following components:
  - a receptacle for sample vessels (10, 100) for holding one or more sample processing vessels (A),
  - a thermostat unit (20) to maintain the sample processing vessels
     (A) and their contents at a constant temperature,
  - a mechanical shaker (30) to shake the sample processing vessels
    (A)
  - a separation device (40) for separating and depositing the magnetic particles on a wall of each sample processing vessel

    (A) by means of magnetic force,

coupled together in a coordinated fashion.

- 6. System based on Claim 5, characterized by the fact that is also contains a pump unit (50) to remove fluid from the sample processing vessel (A).
- 7. System based on Claim 5 or 6, characterized by the fact that the separation device (40) and the receptacle for holding sample vessels are positioned in such a way that they can be moved towards or away from each other.
- 8. System based on Claim 5 characterized by the fact that the sample processing vessels (A) have an outlet (A11) at the bottom that is or can be connected with a suction device.
- 9. System based on Claim 5, characterized by the fact that it holds a number of sample processing vessels (A).
- 10. System based on Claim 5, characterized by the fact that the receptacle for sample vessels (10, 100) is moved by means of an eccentric drive within a plane that is basically vertical to the axis of the sample processing vessel or vessels.
- 11. System based on Claim 5, characterized by the fact that the thermostat unit contains a resistance heating unit and a peltier element.
- 12. System based on Claim 5 in which the sample processing vessels and the cavities have matching conicity.

Add

## amended claims

- 5. System for the release and isolation with magnetic particles containing the following units:
- a) a receptacle for sample vessels (10, 100) for holding one or more sample processing vessels (A),
- a thermostat unit (20) to maintain the sample processing vessels(A) and their contents at a constant temperature,
- c) a mechanical shaker (30) to shake the sample processing vessels (A),
- d a separation device (40) for separating and depositing the magnetic particles on a wall of each sample processing vessel (A) by means of magnetic force,

coupled together in such a coordinated fashion that the units described in a), b), and d) are integrated in one reaction block.